Operating and Parts manual
RINK
Model 1015
Serial number:

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Operating Instructions

Topdresser 1015

SELFPROPELLED

Note:

IN ORDER TO ENSURE THE SAFE USE AND TO ACHIEVE THE BEST PERFORMANCE, IT IS ESSENTIAL THAT THIS OPERATORS MANUAL IS CARREFULLY READ BEFORE THE TOPDRESSER IS USED.

TABLE OF CONTENTS

Contents Page

Safety reg ulations..... ... 3

Short description 5

Technical data 5

Initial Operation..... 6

Operation..... 6

* Before every ride 6
* Loading 7
* Starting the engine 7
* Operating..... 8
* Spreading.....9

Repair and maintenance.....10

* Oil cahnge for the hydraulic tank.....10

* Lubricate machine.....11

* Oil change for conveyor belt gears.....13

* Adjust distance bwetween the brush rolls.....14
(according to requirements)

* Stretch conveyor belt (in case of slipping).....14

* Installing and removing the conveyor belt.....15

* Stretching conveyor belt after assembly.....16

Spare parts list

Technical alterations reserved

Parts marked with # are only available as additional equipment

SAFETY REGULATIONS

(1) The **Topdresser GS 10** is built solely for spreading small-grained. loose material such as sand, small granular material or similar products.

Any other usage is not in accordance with the indicated use. The manufacturer does not answer for any damage resulting fram incorrect usage. The user alone has to incur the risk.

Usage in accordance with the intended use also includes compliance with the manufacturer's conditions of operation. maintenance .and repair.

(2) The machine is built according to prior art and operationally reliable; however. the spreader could put life and limb of the operator or, of third persons at risk if it is not used, maintained and repaired by persons who are familiar with it and have been informed of the dangers.

(3) Any person who. in the plant of the user, is responsible for the operation, maintenance and repair of the machine, must have read and understood the operating instructions and. in particular, this chapter, **Safety Regulations.**

Read the engine manual carefully before operating the machine.

Only use original spare parts from the manufacturer for repairs.

Alongside the references in these operating instructions. the general regulations for safety and for prevention of accidents must be observed.

Accompanying persons are not allowed ! It is also not allowed to sit or ride on the moving machine.

(4) The operator is obliged to check the machine for any external damage or failure before putting it into operation. Any changes (including operating performance) which might affect safety must immediately be remedied. Changes to and rebuilding of the machine (other than changes allowed by the manufacturer) are. tor reasons ot safety, not allowed.

(5) Before starting work, the operator must make himselt familiar with all fittings and contrals as weil as their tunctioning.

Before moving away. check the immediate vicinity and care for a good field of vision.

SAFETY REGULATIONS

(6) Whilst spreader is in operation, no one is allowed to enter the loading ramp. A label with th is notice is stuck on both sides of the spreader. This notice must always be well legible and has to be replaced if damaged!

(7) Whilst the spreader is in operation, do not enter the zone of danger of the spreader since rotating parts and foreign flying particles might cause any injuries.

(8) Adjusting and repair work on axle (wheel bearings, tyres) must only be undertaken by properly trained and authorised personnel.

(9) Stop the engine whenever you leave the operating position. Never leave the machine running, when you leave it, for any reason.

(10) Fill gas tank outdoors, but never while engine is running or hot. Never filt tank while smoking. Use an approved container to handle and store an inflammable liquid. If you spill gasoline, wipe it up. Keep the machine free from accumulation of sand built up. Replace gas tank cap securely.

(11) Before starting work on the hydraulic system, it is important that it is without pressure.

The hydraulic hose pipes must be regularly checked and replaced if damaged or wom out. The replacement hose pipes must conform with the manufacturer's technical requirements.

(12)A sound level of 80dB (a) is emitted in the immediate vicinity ofthe engine on the Topdresser GS 10.

Used oil damages the environment; please disose of carefully

SHORT DESCRIPTION

The Topdresser GS 10 is used for spreading small-grained, loose material, such as sand, smalt granular material or similar products. The Topdresser and the complete hydraulic system is driven by a 13 hp engine. The machine has a closed hydraulic system. The spreading equipment of the Topdresser is driven by a gear box with hydraulic motor for conveyor belt and a separate hydraulic motor for the brush roll. The number of revolutions of the hydraulic system for the conveyor belt can be continuously adjusted by means of a flow divider. A separate flow divider is also available to adjust the forward and reverse speed of the chassis. Spreading density or spreading amount can be determined by the chassis speed and conveyor belt speed.

Technical Data

Dimens
ions

Length ..... 2.00 m
Width ..... 1.80 m
Width ..... 1.30 m

Box Size ... . 0.50 x 1.46 m

Loading capacity 0.5 m3

Weights

Authorized total weight ..... 1500 kg
Empty weight approx.350 kg

Spreading width ..... 1.50 m

Tyre equipment .... 5 Swing tyres Trelleborg
Garden Slick 18x9.50-8

Tyre pressure .... 0.65 bar

Speed ..... 0-8 km/h

Engine..... 13 PS

Spreading amount ..... continuously adjustable

The typeplate is fastened onto the front right-hand side of the spreader

INITIAL OPERATING

- To start the engine

a) Fill fuel tank with clear, fresh "Regular" grade gasoline.
b) Place throttle control in FAST position.
c) Push the ignition switch to the "ON" position and push out choke lever.
d) Pull starter rope rapidly. Repeat if necessary with choke opened slightly.
e) When engine starts, push choke lever back to run position and place throttle control lever in desired running speed.

Please note: Proper engine operating and maintenance instructions have been provided with this unit by the engine manufacturer. It is important to read and maintain this manual. Warranty on this engine and engine accessories are provided by the engine manufacturer.

* After the first ride with a full load

- Retighten wheel nuts.

- Check wheel hub clearance and have it adjusted, if necessary. -

Test tyre pressure.

- Check hydraulic tank for eventual oilloss.

- Retighten hydraulic fittings.

OPERATION.

Before every ride

- Check oil volume in hydraulic tank and search for any leakings.

- Check for any externally recognizable failures or damage and repair them.

- Check tyre pressure.

- Check conveyor belt tread, reset if necessary.

OPERATION

Loading

- Pay attention to the desired maximum ground pressure.

- When loading, pay attention for the authorized total weight.

- Do not drop off too much material in front of spreader. Please keep the engine free of any accumulation.

Starting the engine

- Push the ignition switch to the "ON" position.

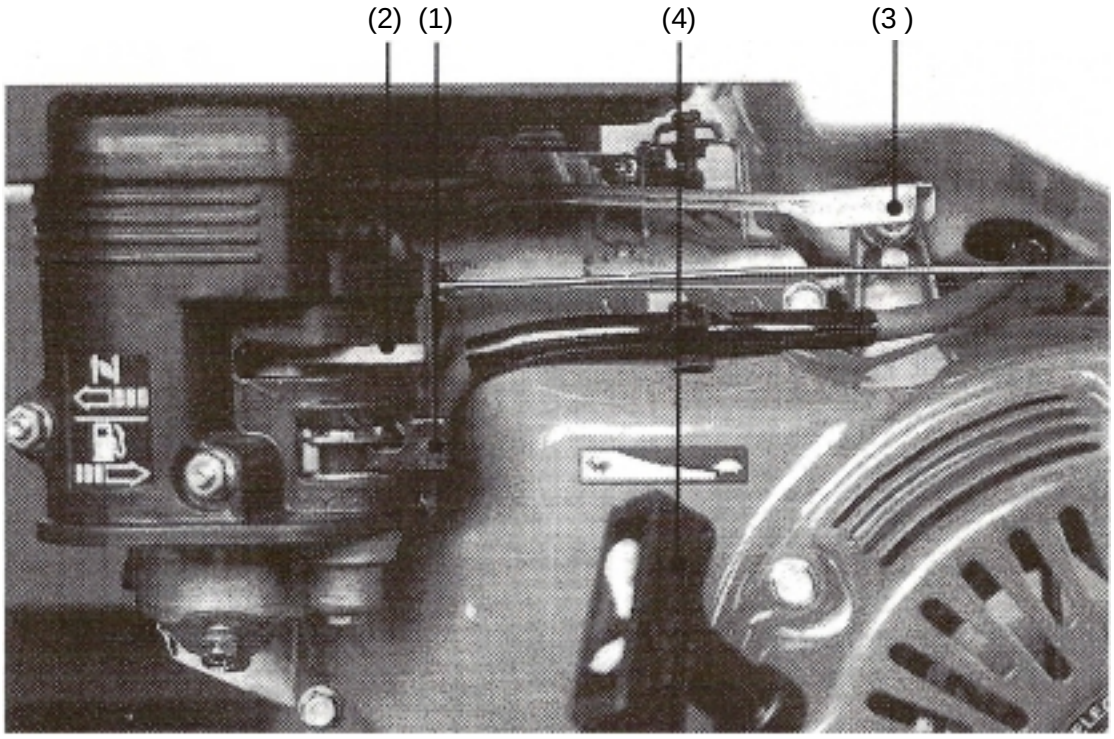
- Open the gas flow moving the gas throttle to the right (1)

- Move the choke lever to the left (2).

- Bring the throttle control in middle position (3).

- Pull starter rope rapidly (4). Repeat if necessary.

- When the engine is running, bring back the choke lever into neutral position and place throttle controllever in desired running speed.

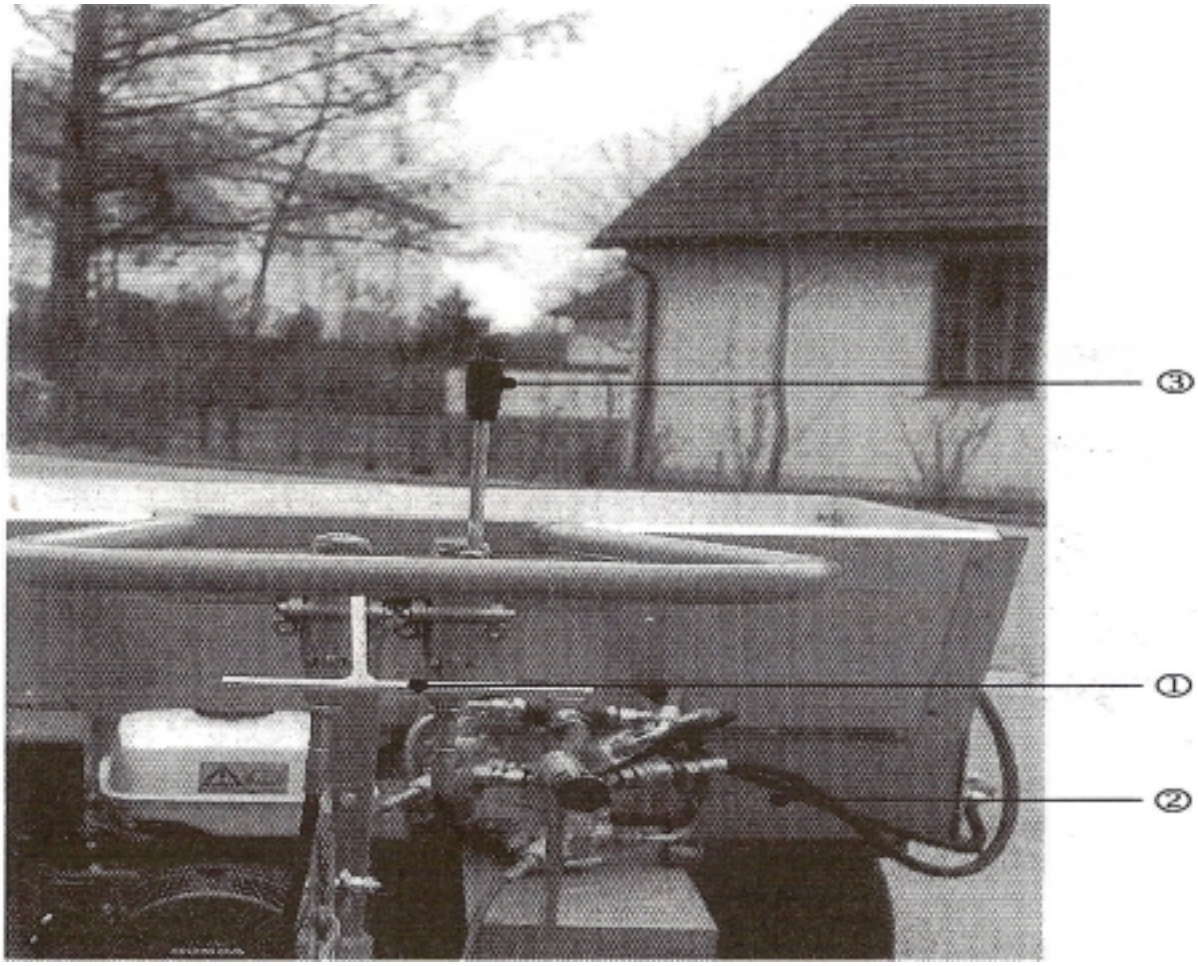


OPERATING

Controls:

The forward and reverse drive can be activated by the shift lever at the handle (1). The machine stops immediately, as soon as shift lever wil! be released. Up means forward, down means reverse drive. The speed of the drive can be regulated with the flow regulator (2). Scale distribution 0 to 10.

The Topdresser can be activted by the shift lever (3). The spreading density can be adjusted at the flow regulator of the Topdresser. Please read at page 9 for further details on the Topdresser adjustment.

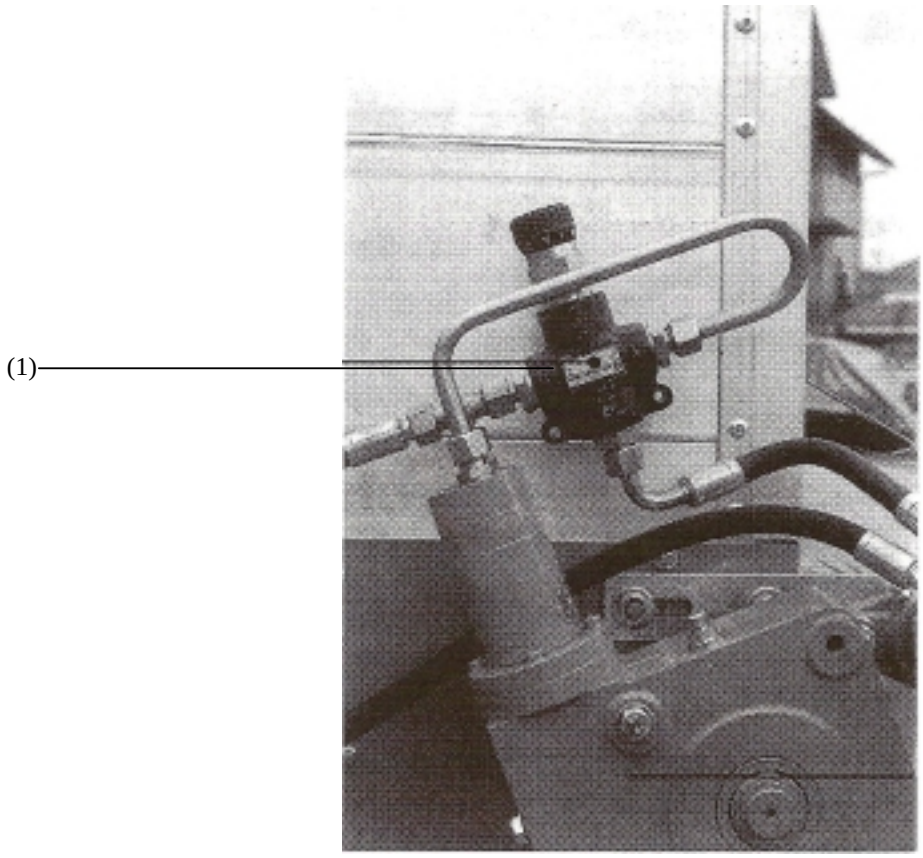


SPREADING

Controls:

The brush roller speed can only be controlled by the tractor revs.

1 Regulator tor setting the speed ot the conveyor belt:
Scale distribution 0 to 10



Adjusting spreading thickness:

The spreading thickness (mm) is dependent on

- the speed of the vehicle
- the speed of the conveyor belt (regulator(1)

Set the required spreading thickness on a firm surface before starting work.

Set the controler for teh conveyor belt speed to the required value

REPAIR AND MAINTENANCE

Oil change for the hydraulic tank (according to requirements)

- Unscrew the filling nozzle (1).

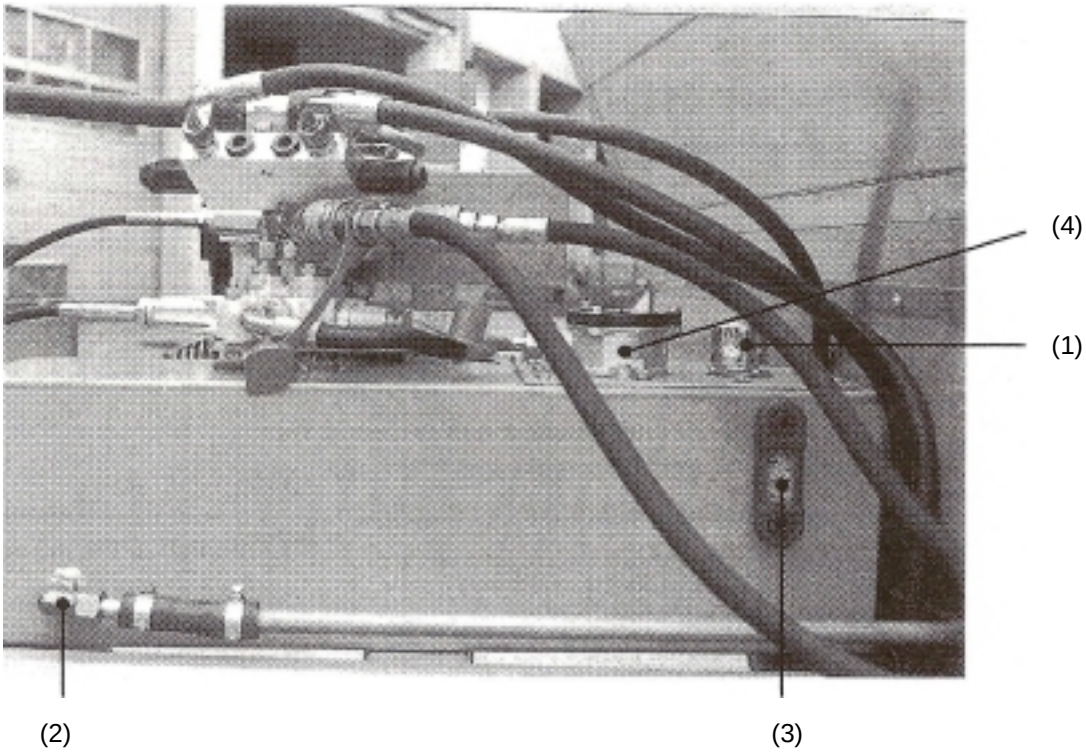
- Release the suction hose (2) and drain off the oil. - Screw the suction hose back into place.

- Top up with **Bio-Hydraulic oil CG 46** until the level reaches the centre of the viewing window (3).

- Screw the filling nozzle back on.

Please note:

This is a closed hydraulic circuit. In order to prevent the ingress of contaminants, the runback filter (4) must be replaced every 100 operating hours.

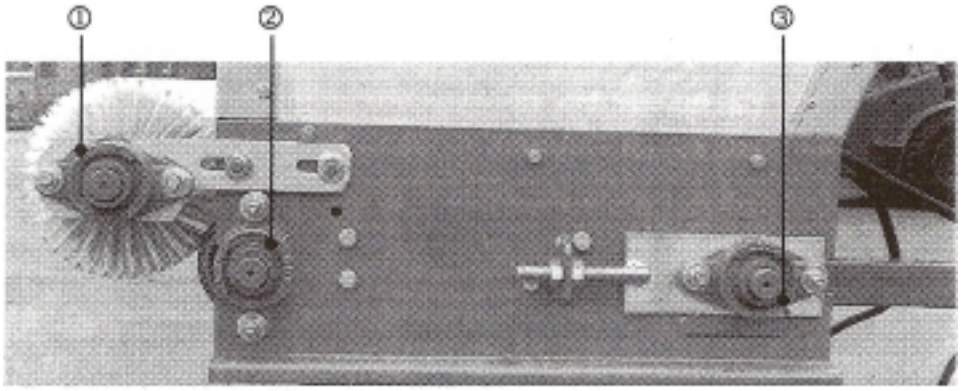


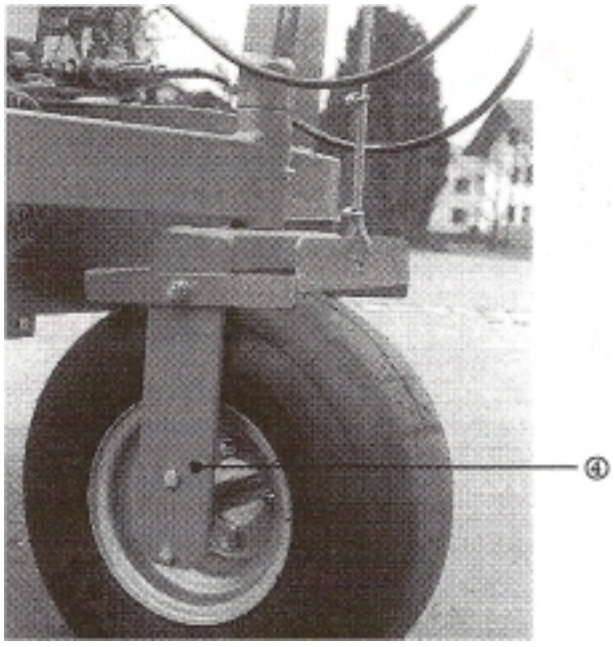
REPAIR AND MAINTENANCE

Lubricate spreader (every 50 operating hours) _ubricate with multi-purpose grease:

1 Bearings on both sides of the brush roll
2 Bearings on bath sides of the rear conveyor shaft
3 Bearings on both sides of the front conveyor shaft
4 Bearings on the front wheel

Bearings without a *lubricating nipple require na greasing.*





REPAIR AND MAINTENANCE

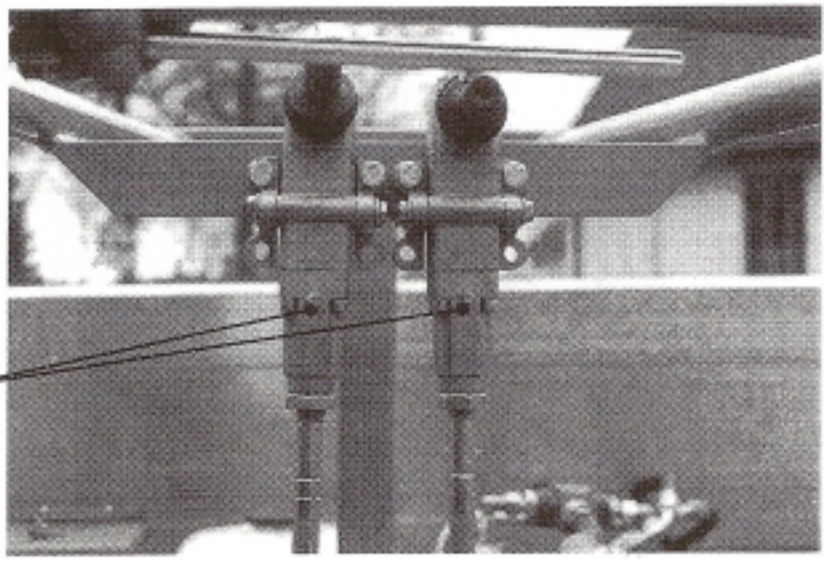
Lubricate machine (every 50 operating hours)

Lubricate with multi-purpose grease:

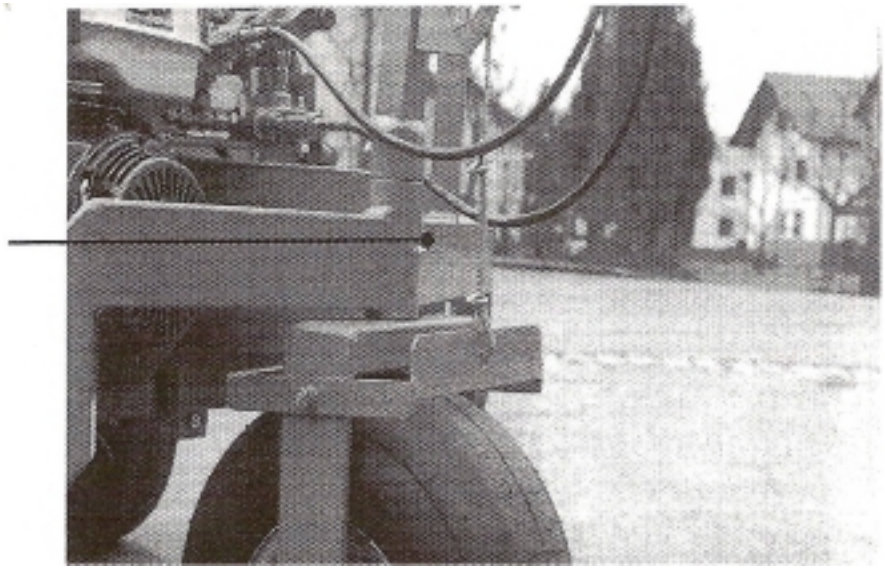
1 Bearings on both shift levers at the front handle.
2 Bearing on the front of the steering wheel.

Bearings without a *lubricating nipple require no greasing.*

(1)



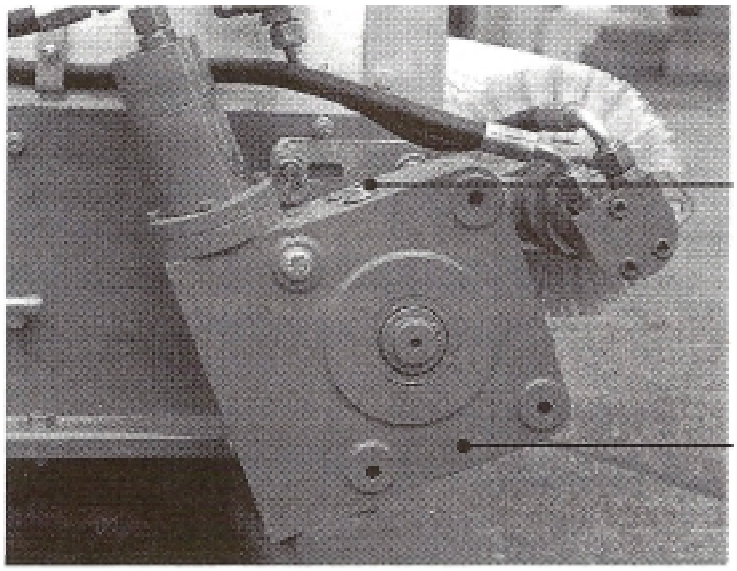
(2)



REPAIR AND MAINTENANCE

Oil change for conveyor belt gears (every 100 operating hours) - Unscrewfiller screw (1).

- Loosen drain plug (2) from the below inside area and drain *oft* oil.
- Screw on drain plug with new gasket.
- Add 0.61 Oil SAE 120 to 140.
- Screw on filler screw with the new gasket.



REPAIR AND MAINTENANCE

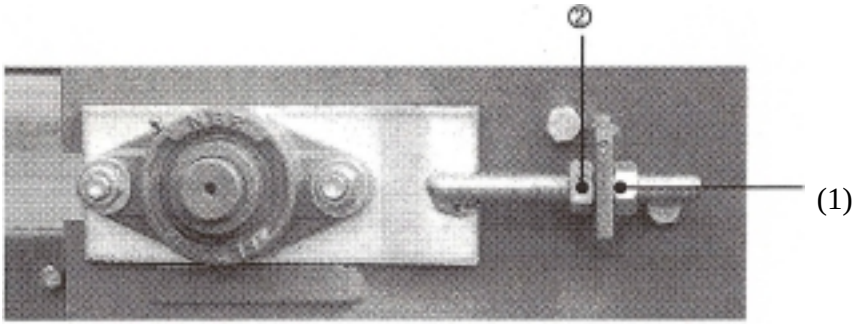
Adjust distance between the brush rolls (according to requirements)

- Loosen the two screws (1) on each side of the brush roll
- Move the brush roll until it slightly contacts the conveyor belt.
- Retighten screws (1).

Stretch conveyor belt (in case of slipping)

- Loosen counternut (1).
- Turn nut (2) once clockwise.
- Tighten counternut.

Excessive stretching can reduce the life span of the conveyor belt.

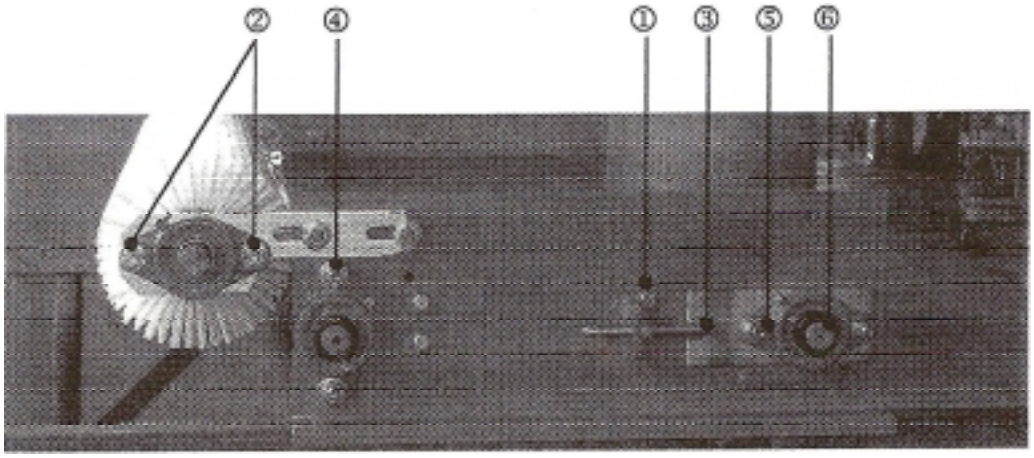


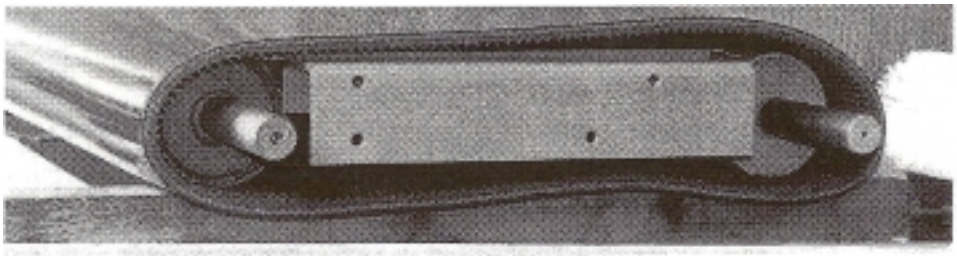
REPAIR AND MAINTENANCE

Installing and removing the conveyor belt

- Loosen screws on both sides (1) and remove the chassis.
- Remove the brush roller by loosening the screws (2).
- Release the tension on the conveyor belt on both sides (3).
- Remove the bearing on the right seen in the direction of travel (4).
- Pull away the side element (5) with tension bearing (6).
- Remove the conveyor belt.

The reassembly takes place in reverse order.





REPAIR AND MAINTENANCE

Stretching conveyor belt after assembly

- Tension the conveyor belt on both sides evenly using the two tension screws until the marked length is stretched to 487 mm (distance between centres).
- Allow the conveyor belt to run in *tor* approx. 30 minutes until it runs centrally.

The conveyor belt should not graze the sides. If readjustment is necessary increase tension on the side which is doing the grazing.

Too much tension will reduce the life Sf)an of the conveyor belt.

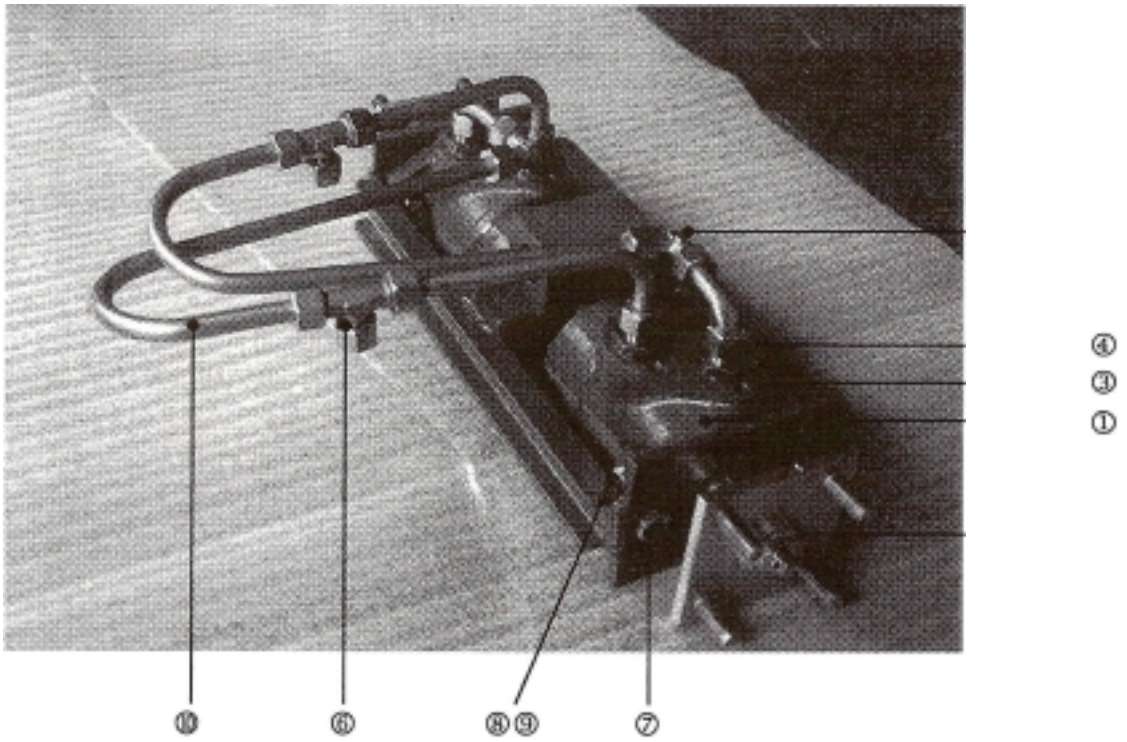
Ordering spare parts

To ensure that your spare parts order can be processed quickly, always specify the following data when ordering.

- Chassis number / Ident. number
- Model (year of construction if available)
- Part number from respective spare parts list
- Designation
- Order number

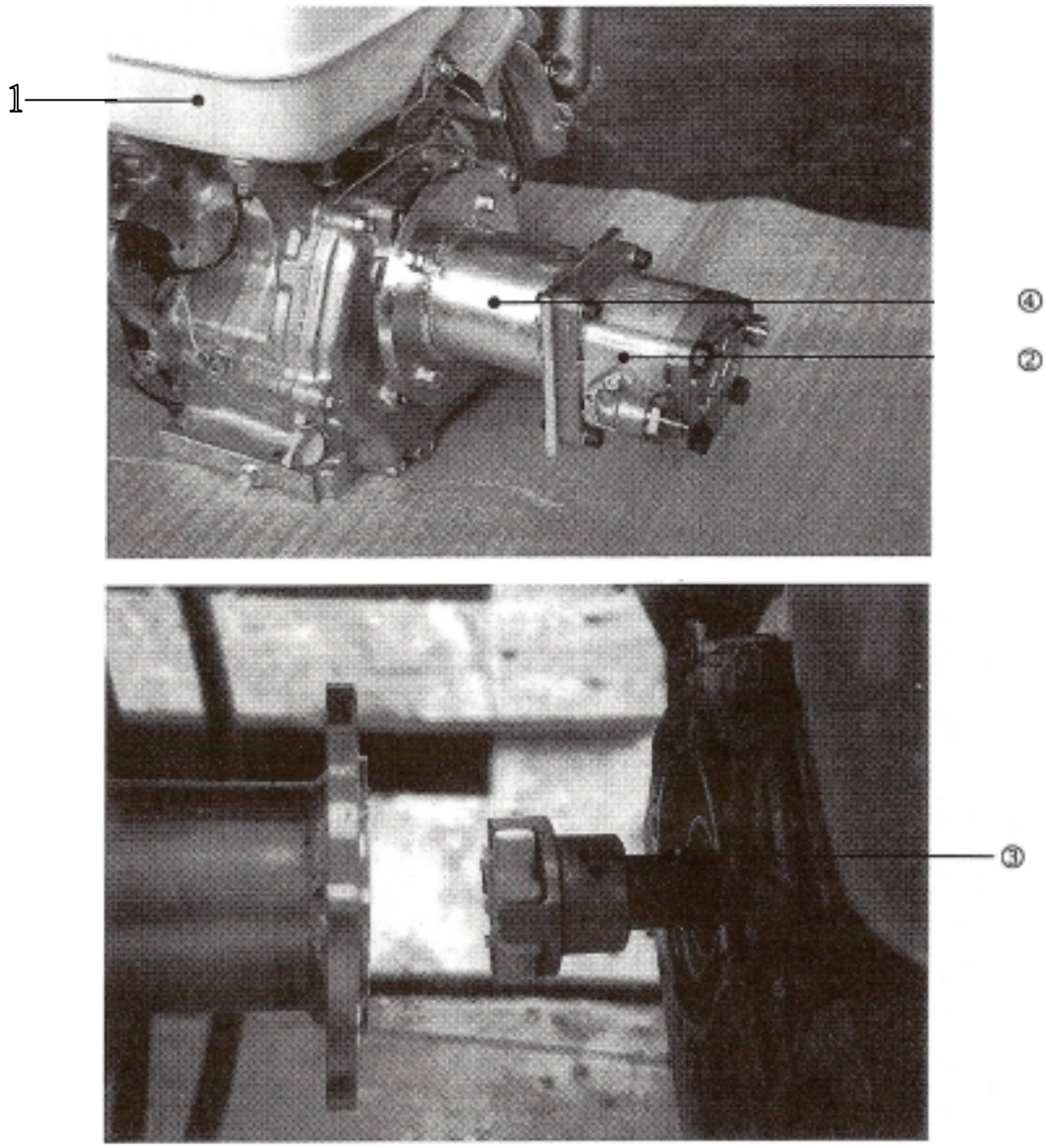
Spare Parts List - Wheel Drive

Part No.	Designation	Order No.	Remark
1	Hydraulic Motor	10580	
2	Axle Hub	16120	
3	Motor assembly	16204	
4	Hydraulic fitting	10661	
5	Hydraulic fitting	10662	
6	Hydraulic fitting	10043	
7	Srew M 12x35 mm	10158	
8	Nut M 12	10179	
9	Was her	10136	
10	Hydraulic tube 12x1.5	10444	



Spare Parts List - Engine - Pump

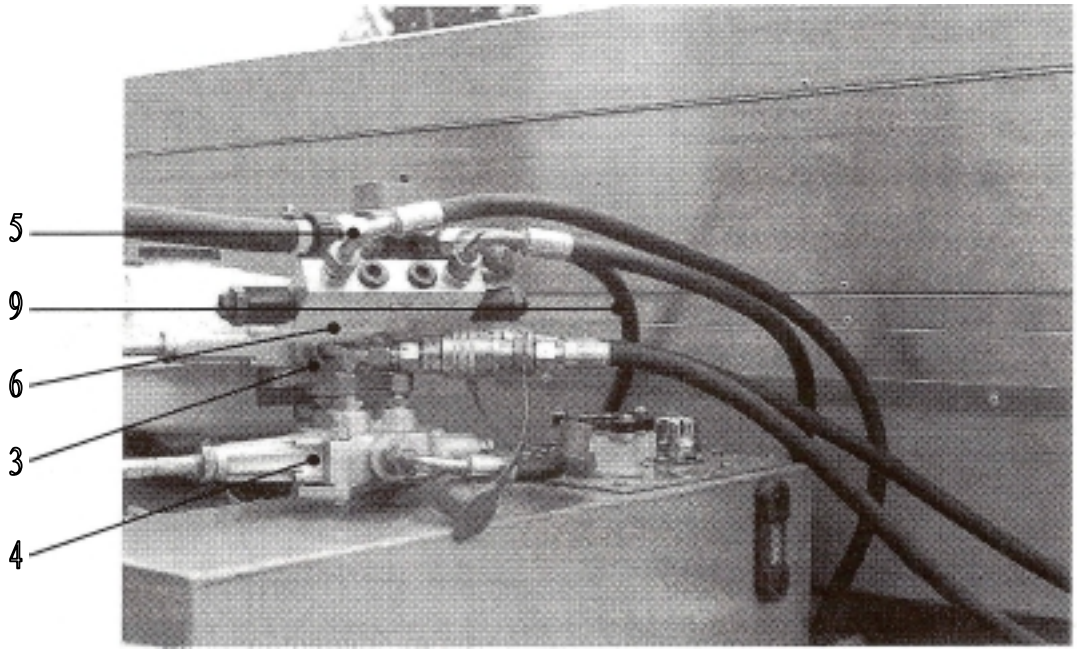
Part No.	Designation	Order No.	Remark
1	Honda engine GX 390	10684	
2	Hydraulic Pump	43421-01	
3	Clutch	43421-02	
4	Pump adapter	43421-03	

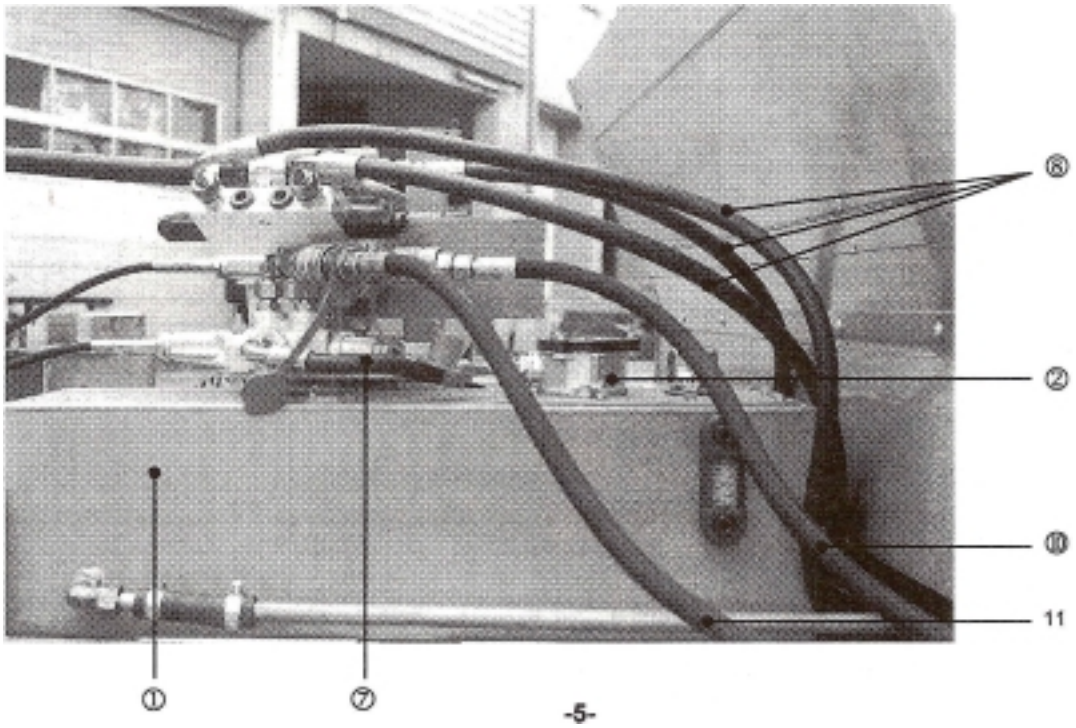


Spare Parts List - Hydraulics

Part No.	Designation	Order No.	Remark
1	Hydraulic tank	16077	
2	Hydraulic Filter	43421-16	
3	Valve *tor* Topdresser	43421-08	
4	Valve *tor* drive	43421-010	
5	Flow valve	10336	
6	Flow regulator valve	43421-09	
7	Hydraulic hose 1 0x280	10673	
8	Hydraulic hose 10x1200	10666	
9	Hydraulic hose 10x750	10671	
10	Hydraulic hose 1 Ox1500	10674	
11	Hydraulic hose 10x1200	10675	

Spare Parts List - Hydraulics





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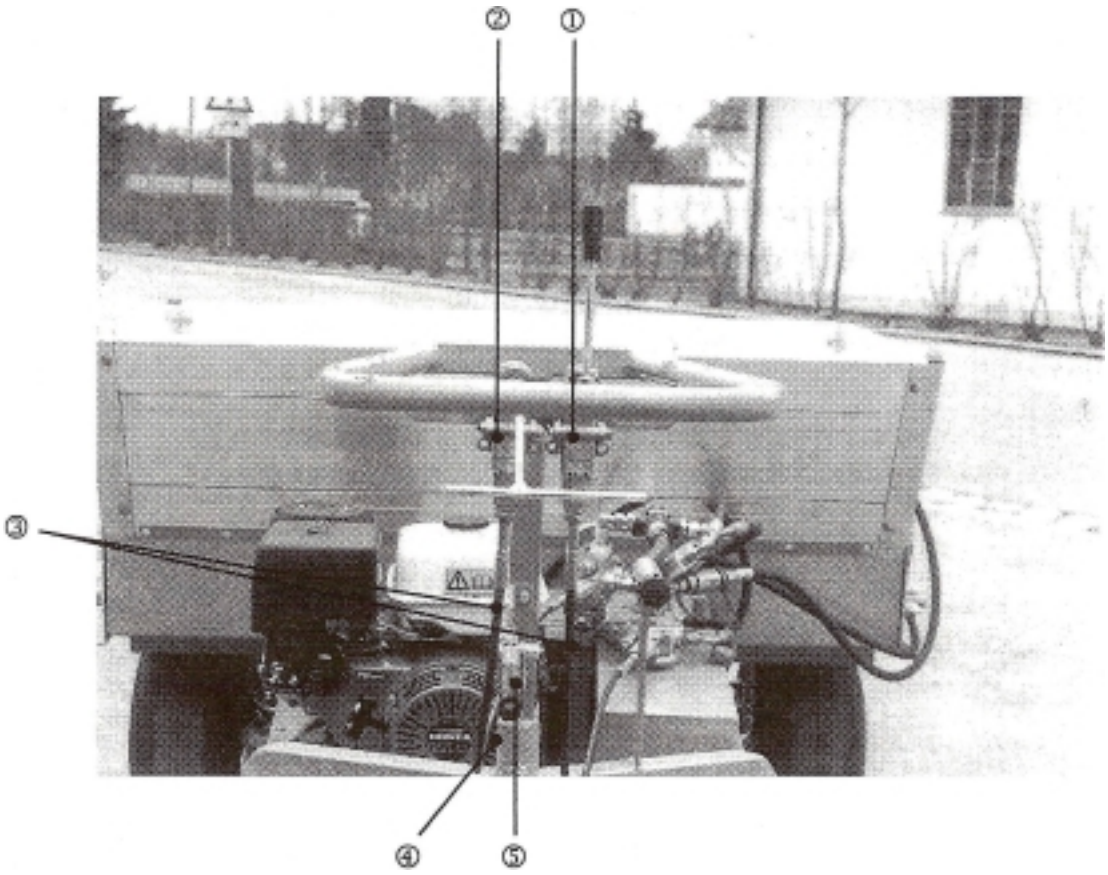
Spare parts list Topdresser

Part No.	Designation	Order No.	Remark
1	Clamping device	16112	
2	Transport roller tront	16129	
3	Transport roller rear	16127	rubberized
4	Shaft tor brush rolller	16159	
5	Torque support tor	16161	.-
	conveyor belt drive system		
6	Torque support tor	16157	
	brush roller "drive system		
7	Connecting sleeve	16160	
8	Holder tor brush roller	16115	
9	Clamp rail tront	10015	30 x 4 x 1440 mm
10	Clamp rail aside	10021	30 x 4 x 540 mm
11	Rubber stripper tront	10573	
12	Rubber stripper aside	10407	
13	Conveyor belt	10524	
14	Spreading roller unit	10162	
15	Hopper	10529	Aluminium
16	Flange bearing dia. 30 mm	11001	Lubrication instructions !
17	Regulator 12 I	10335	

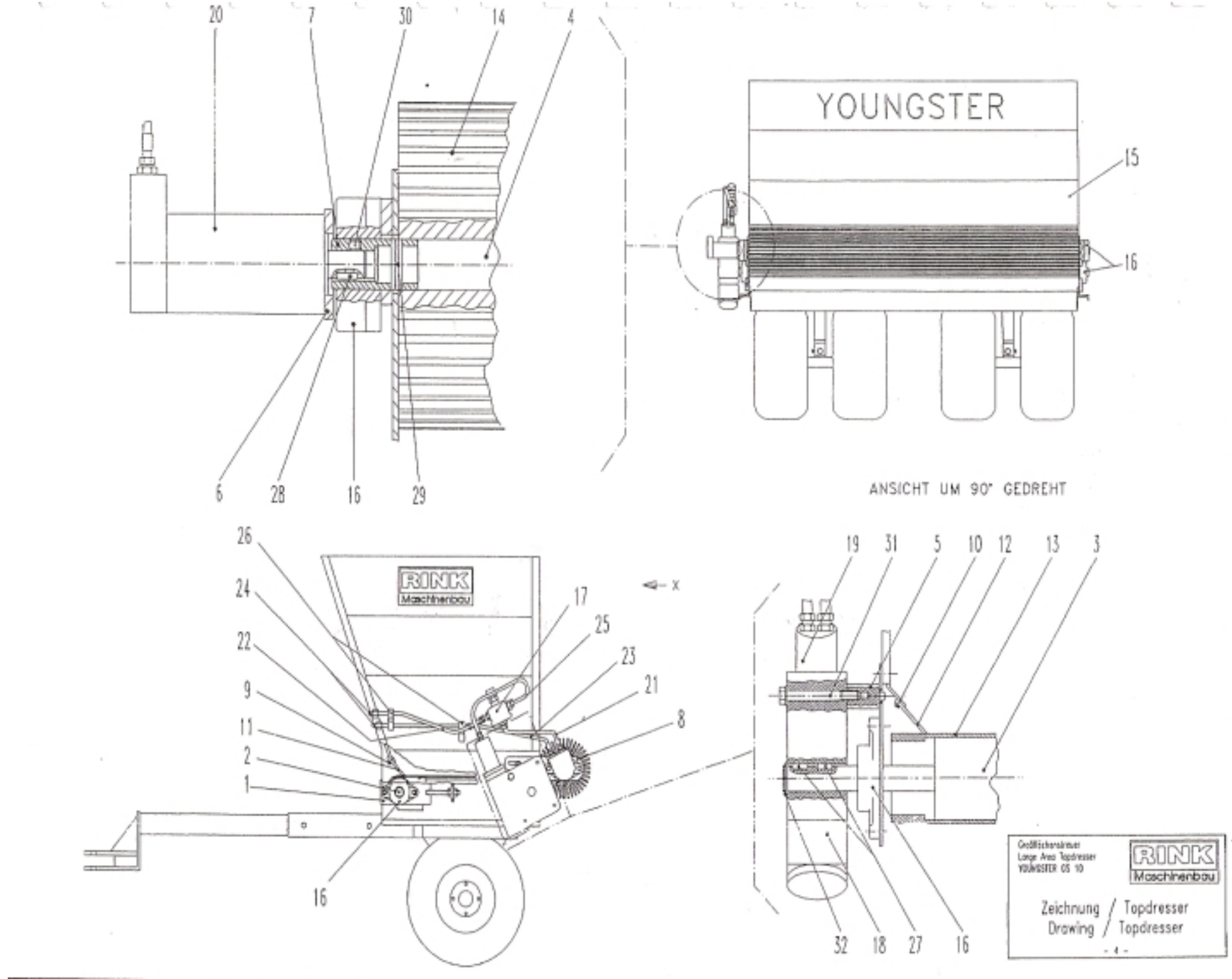
Spare Parts List - Front steering

Part No.	Designation	Order No.	Remark
1	Shift lever *tor* Topdresser	43421-11	
2	Shift lever *tor* drive	43421-12	
3	Contact wire	43421-14	
4	Brake wire	10686	
5	Brakelever	10114	



Spare parts list Topdresser

Part No.	Designation	Order No.	Remark
18	Conveyor belt gear	10492	Oil change instructions !
19	Hydraulic motor tor	10572	
	transport roller		
20	Hydraulic motor tor	10473	
	brush roller		
21	Hydraulic hose NW 10x280	10673	
22	Hydraulic hose NW 10x400	10672	
23	Hydraulic hose NW 10x750	10671	
24	Hydraulic hose NW 10x2800	10667	
25	Hydraulic tube		Tube 12x1
26	Holder tor hydraulic hose	10348	
27	Feather key 8x7x20	10100	
28	Feather key 6x6x25	10483	
29	Clamping Sleeve 8x30	10605	
30	Set screw M 8x6	10430	
31	Screw M 1 Ox1 00	10600	
32	CircJip 30x1.5	11002	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YOUNGSTER
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ANSICHT UM 90° GEDREHT
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11
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RINK
Maschinenbau
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Großflächensämaschine
Large Area Topdresser
YOUNGSTER OS 10
RINK
Maschinenbau
Zeichnung / Topdresser
Drawing / Topdresser
- 4 -